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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/713,442	11/14/2003	George J. Franks JR.	79374	9617

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CHICAGO, IL 60603-3406

EXAMINER

PATEL, DHIRUBHAI R

ART UNIT	PAPER NUMBER
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2831

DATE MAILED: 12/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/713,442

Applicant(s)

FRANKS, GEORGE J.

Examiner

DHIRU R PATEL

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 October 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-39 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-39 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 1104
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

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Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, an electrical connector (for claims 1, 11, 19 and 38), a first conductive structure and a second conductive structure recited in claims 1 and 11, and a third conductive structure (for claim 11) must be shown or the feature(s) canceled from the claim(s). The examiner suggest showing reference number for an electrical connector, a first conductive structure, a second conductive structure, a third conductive structure. A proposed drawing correction or corrected drawings are required in reply to the office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance. No new matter should be entered.

Applicant is responsible for showing reference number for claimed invention.

2. Applicant is required to submit a proposed drawing correction in reply to this office action. However, formal correction of the noted defect may be deferred until after the examiner has considered the proposed drawing correction. Failure to timely submit the proposed drawing correction will result in the abandonment of the application.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claim 1, 11 as best understood, are rejected under 35 U.S.C. § 102(b) as being anticipated by Moscioni et al (3,924,920).

Moscioni et al disclose:

Regarding claim 1, a clamp 10 (see fig 1) for mechanically and electrically securing a connector to an electrically conductive structure (see entire column 3), a first conductive structure 12 (see fig 1 and the entire column 3), a second conductive structure 13 (see fig 1 and the entire column 3) and a fastener 14 (see fig 1 and the entire column 3) securing the first structure and the second structure to the clamp 10 such that a conductor 11 (see fig 6) can be captured between the first structure and the second structure (see fig 6 and the entire column 3), and the first structure and the second structure being made of conductive material with same or generally similar galvanic potentials as the material of the conductor (see column 4 lines 47-65 and entire column 5).

Regarding claim 11, a clamp 10 (see fig 1) securing a connector to an electrically conductive structure (see fig 1 and the entire column 3), a first conductive structure 12 (see fig 1 and the entire column 3), a second conductive structure 13 (see fig 1 and the entire column 3), a third conductive structure 22 (see fig 1 and the entire column 3) and a fastener 14 (see fig 1 and the entire column 3) securing the first structure, the second structure and the third structure to the clamp (see fig 1 and the entire column 3), a conductor 11 (see fig 6) can be captured between the first structure and the second structure (see fig 6), and the

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second structure being made of metals with same or generally similar galvanic potentials as the material of the conductor (see column 4 lines 47-65 and entire column 5),

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103 (a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

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4. Claims 1-2, 11-12, 13-16 and 38-39 are rejected under 35 U.S.C. § 103 (a) as being unpatentable over Glass et al (6,652,295) in view of Moscioni et al (3,924,920).

Glass et al disclose :

Regarding claim 1, a clamp 48 (see fig 5) for mechanically and electrically securing a connector to an electrically conductive structure 54 (see fig 5), a first conductive structure 64 (see figs 5-6), a second conductive structure 68 (see figs 5-6) and a fastener 56 (see fig 6) securing the first structure and the second structure to the clamp such that a conductor 74 (see fig 5) can be captured between the first structure and the second structure (see fig 5), but fails to disclose the first structure and the second structure being made of conductive material with same or generally similar galvanic potentials as the material of the conductor. Moscioni et al teach the use of a first structure and a second structure being made of conductive material (aluminum) with same or generally similar galvanic potentials as the material of the conductor (see column 4 lines 47-65 and the entire column 5) in order to improve shield continuity for the entire system, since aluminum is a good conductor of electrical current (see column 5 lines 1-5 and 44-45). It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the assembly of Glass et al with the first structure and the second structure being made of conductive material (aluminum) with same or generally similar galvanic potentials as the material of the conductor as taught by Moscioni et al in order to improve shield continuity because aluminum is a good conductor of electrical current.

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Regarding claim 2, the modified assembly of Glass shows all of the claimed features as shown above, including the clamp comprises a bendable strap 50 and at least a portion of the strap provides a third conductive structure 78 (see fig 6 of Glass) such that the second structure and the third structure are in electrical contact with one another when the connector being attached to the electrical conductive structure 54 (see fig 5 of Glass) and the conductor being captured between the first structure and the second structure (see fig 6 of Glass).

Regarding claim 11, the modified assembly of Glass shows all of the claimed features as shown above, including a clamp 48 (see fig 6 of Glass) securing the connector to an electrically conductive structure 54 (see fig 6 of Glass), a first conductive structure 64 (see fig 6 of Glass), a second conductive structure 68 (see fig 6 of Glass), a third conductive structure 78 (see fig 6 of Glass) and a fastener 56 (see fig 6 of Glass) securing the first structure, the second structure and the third structure to the clamp (see fig 5 of Glass), a conductor 74 (see fig 1 of Glass) can be captured between the first structure and the second structure (see fig 6 of Glass), but fails to disclose the first structure and the second structure being made of conductive material with same or generally similar galvanic potentials as the material of the conductor.

Moscioni et al teach the use of a first structure and a second structure being made of conductive material (aluminum) with same or generally similar galvanic potentials as the material of the conductor (see column 4 lines 47-65 and the entire column 5) in order to improve shield continuity for the entire system, since aluminum is a good conductor of

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electrical current (see column 5 lines 1-5 and 44-45). It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the assembly of Glass et al with the first structure and the second structure being made of conductive material (aluminum) with same or generally similar galvanic potentials as the material of the conductor as taught by Moscioni et al in order to improve shield continuity because aluminum is a good conductor of electrical current.

Regarding claim 12, the modified assembly of Glass shows all of the claimed features as shown above, including see figure 5 of Glass for claim 12 .

Regarding claims 13-16, the modified assembly of Glass et al disclose all the features of the claimed invention as shown above, but fails to disclose the first structure and the second structure comprises copper, brass, and third structure comprises galvanized steel, the conductor comprises copper. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the assembly of Glass et al with the first structure and the second structure comprises copper, brass, and third structure comprises galvanized steel, and the conductor comprises copper, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416.

Regarding claims 38-39, claims 38-39 are method counter parts of product claim 11, and with respect to claim 39, The examiner takes official notice that to using a nut for tighten is well known in the electrical art.

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Allowable Subject Matter

5. Claims 3-10 , 17-37 would be allowable if rewritten or amended to overcome the objection of the drawings, set forth in this Office action.

The following is a statement of reasons for the indication of allowable subject matter:

The primary reasons for the indication of the allowability of claims 3-10 , 17-37 are the inclusion therein, in combination as currently claimed, of the limitation of a clip having at least one flange located to substantially prevent rotation of the clip relative to the bendable strap and the clip providing the first conductive structure (for claims 3-10), the second layer is a grounding shim (for claims 17-18), and an electrically conductive structure comprising: a fastener securing the grounding clip and the grounding shim to the bendable strap (for claims 19-37)

The previously listed limitation is neither disclosed nor taught by the prior art of record, alone or in combination.

Response to Arguments

6. Applicant's arguments with respect to claims 1-2, 11-12, 13-16 and 38-39 have been considered but are moot in view of the new ground(s) of rejection.

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Contact information

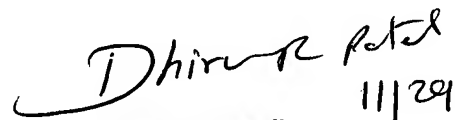
7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dhiru Patel whose telephone number is 571-272-1983. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on 571-272-2800 ext 31. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pairedirect.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

Dhiru Patel
Primary Examiner
Group Art Unit 2831
November 29, 2004


DHIRU R. PATEL
PRIMARY EXAMINER
11/29/04.